

REMARKS

The Examiner has objected to the drawings, citing several Rules. Submitted herewith for the Examiner's approval are revised drawings amended to address and respond to each and every one of the Examiner's objections.

The Examiner has rejected Claims 2-4 under 35 U.S.C. § 102 as being anticipated by Cortez (US 6,210,138). Applicant has amended Claim 2, the independent Claim, to include the limitation of a spacer plate. Cortez does not teach a spacer plate having a temperature probe aperture therein. As Cortez was the basis of the Examiner's rejection of Claims 2 -4, and Claim 2 has been amended to include limitations not taught by Cortez, the Applicant therefore submits that the prior art no longer anticipates the present invention.

The Examiner has rejected Claims 5 under 35 U.S.C. § 103(a) as being unpatentable over Cortez (6210138) in view of Scholl (4009974). As stated above, the Applicant has amended Claim 2 to include a spacer plate, which is not taught or implied by the teachings of the Cortez patent or the Scholl patent. In Scholl, the heaters are located in the reservoir wall (Col.3, Lines 18 - 21), and not alongside the pump as is taught by the present invention. In Scholl, the material passes through the pump and is not heated while it is passing through the pump, but the heat is applied to the material only before the material moves through the pump. Additionally, Scholl teaches a pump that has the

shafts passing outside of the pump area, through the case. The advantage stated by Scholl is that it increased feed into the pump (Col.3, Lines 50-60). The present invention does not use this technique, but instead contains and houses the shafts entirely within the pump.

Lastly, the Examiner rejects Claim 8 as being unpatentable over Weatherston (3922117) in view of Good et al. (3943036). Weatherston teaches a two stage roots type compressor. The essence of Weatherston is that a gas enters the pump at one end and is compressed, or pumped, twice, before exiting the outlet side. The present invention has two stages, but each stage has an outflow, which is contrary to the Weatherston's teachings. Weatherston teaches a single inflow and a single outflow. The present invention teaches a single inflow and two outflows. An embodiment of the present invention, however, does teach a combining of the outlets to produce a single outflow, as was noted by the Examiner. However, neither Weatherston nor Good teaches the use of a spacer plate having a temperature aperture for mounting a temperature probe. Such a configuration is not possible with Weatherston in that the partition (Fig.1 #16 and Fig.5 #16') is enclosed within the body of the pump, having no exposure to the outside. Good teaches a single stage pump that has a spacer (Fig.2 #30) but, like Weatherston, the space plate is enclosed. In Good, a jacket for heating and cooling covers the outside periphery of the pump body. Applicant submits that

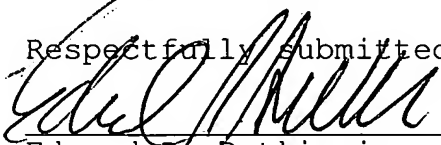
the combination of Good and Weatherston is improper in that there is not teaching in Good that would either directly or implicitly instruct a user to combine more than one pump in series.

Additionally, in order to combine more than one Good pump, one would have a plurality of intervening plates between each pumping chamber. The Weatherston patent teaches only one intervening plate between chambers.

Functionally, the dual chambers of Weatherston pressurize a substance in steps, before allowing the substance to exit the pump. The pumps are sequential. In the present invention, the pumps do not pressurize the substance twice, but instead each pressurizes the substance once, with the substance then exiting the pump through two separate ports. The pressurization could be analogized to an electrical circuit, in that the pump of the Weatherston patent acts as a resistance in series. The pump in the present invention acts as a resistance in parallel. The pumping effect of Weatherston is additive, whereas in the present invention, it is not.

Reconsideration and a notice of allowance are requested.

Respectfully submitted,


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